

Listing of the Claims

Claims 1-28 (Cancelled).

29. (Currently amended) A copolymer composition comprising a diene-modified polypropylene random copolymer having propylene units; diene units, derived from 2-methyl-1,5-hexadiene or linear α , internal, non-conjugated diene monomers; from 0.0 wt% to 2.0 wt% ethylene units; a branching index of less than 1.0; and a heat fusion of 25 J/g or more; and wherein the polypropylene copolymer has a crystallization temperature (T_c) of 110 °C or more.
30. (Currently amended) The copolymer composition of claim 29 in which the diene units derived from linear α , internal non-conjugated diene monomers are present in the polypropylene copolymer in an amount of from 0.0005 mol% to 10 mol%.
31. (Currently amended) The copolymer composition of claim 29 in which the diene units derived from linear α , internal non-conjugated diene monomers are present in the polypropylene copolymer in an amount of from 0.005 mol% to 1 mol%.
32. (Currently amended) The copolymer composition of claim 29, in which the linear α , internal non-conjugated diene monomer is 7-methyl-1,6-octadiene.
33. – 43. (Cancelled)
44. (Previously presented) The polymer composition of claim 29, in which the polypropylene copolymer has a melt flow rate of 0.01 dg/min or more.
45. (Previously presented) The polymer composition of claim 29, in which the polypropylene copolymer has a melt flow rate of 0.1 dg/min or more.
46. (Previously presented) The polymer composition of claim 29, in which the polypropylene copolymer has a melt flow rate of 0.5 dg/min or more.
47. (Previously presented) The polymer composition of claim 29, in which the polypropylene copolymer has a melt flow rate of 0.7 dg/min or more.

48. (Previously presented) The polymer composition of claim 29, in which the polypropylene copolymer has a melt flow rate of 1.0 dg/min or more.
49. (Previously presented) The polymer composition of claim 29, in which the polypropylene copolymer has a melt flow rate of 1.5 dg/min or more.
50. (Previously presented) The copolymer composition of claim 29 in which the diene units derived from 2-methyl-1,5-hexadiene are present in the polypropylene copolymer in an amount of from 0.0005 mol% to 10 mol%.
51. (Previously presented) The copolymer composition of claim 29 in which the diene units derived from 2-methyl-1,5-hexadiene are present in the polypropylene copolymer in an amount of from 0.005 mol% to 1 mol%.
52. (Previously presented) A copolymer composition comprising a diene-modified polypropylene random copolymer having propylene units; diene units, derived from 2-methyl-1,5-hexadiene or α , internal, non-conjugated diene monomers; from 0.0 wt% to 2.0 wt% ethylene units; and exhibiting a heat fusion of 25 J/g or more and a branching index of less than 1.0; and wherein the polypropylene copolymer has a melting point (T_m) of 165 °C or more.
53. (Previously presented) The copolymer composition of claim 52, in which the diene units derived from α , internal non-conjugated diene monomers are present in the polypropylene copolymer in an amount of from 0.0005 mol% to 10 mol%.
54. (Previously presented) The copolymer composition of claim 52, in which the diene units derived from α , internal non-conjugated diene monomers are present in the polypropylene copolymer in an amount of from 0.005 mol% to 1 mol%.
55. (Previously presented) The copolymer composition of claim 52, in which the α , internal non-conjugated diene monomer is 7-methyl-1,6-octadiene.
56. (Previously presented) The polymer composition of claim 52, in which the polypropylene copolymer has a melt flow rate of 0.01 dg/min or more.

57. (Previously presented) The polymer composition of claim 52, in which the polypropylene copolymer has a melt flow rate of 0.1 dg/min or more.
58. (Previously presented) The polymer composition of claim 52, in which the polypropylene copolymer has a melt flow rate of 0.5 dg/min or more.
59. (Previously presented) The polymer composition of claim 52, in which the polypropylene copolymer has a melt flow rate of 0.7 dg/min or more.
60. (Previously presented) The polymer composition of claim 52, in which the polypropylene copolymer has a melt flow rate of 1.0 dg/min or more.
61. (Previously presented) The polymer composition of claim 52, in which the polypropylene copolymer has a melt flow rate of 1.5 dg/min or more.
62. (Previously presented) The copolymer composition of claim 52, in which the diene units derived from 2-methyl-1,5-hexadiene are present in the polypropylene copolymer in an amount of from 0.0005 mol% to 10 mol%.
63. (Previously presented) The copolymer composition of claim 52, in which the diene units derived from 2-methyl-1,5-hexadiene are present in the polypropylene copolymer in an amount of from 0.005 mol% to 1 mol%.